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ABSTRACT

The Skill Acquisition Measures (SAM) were designed by the Lancaster (Pennsylvania) School District as criterion referenced tests for mathematics. This manual consists of copies of the student test forms for level 6, with additional information for the teacher's use. Each of the test items is presented with the correct answers and the criteria for scoring. In addition, notes are provided if there are special instructions for administering or scoring that particular item. The level 6 skills relate to the following vocabulary terms: (1) the commutative principle; (2) the associative principle; (3) the distributive principle; (4) exponent; (5) composite number; and (6) reciprocal. (TW)

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ED284758

SCHOOL DISTRICT OF LANCASTER

SKILL ACQUISITION MEASURES

(SAM)

TEACHER'S MANUAL

ELEMENTARY MATHEMATICS
LEVEL VI

BEST COPY AVAILABLE

SKILL AQUISITION MEASURES

The SAM measures are designed as criterion referenced measures, that is, they are intended to measure whether or not a student has mastered a particular skill. The emphasis is on the individual student and his learning progress rather than toward the class of students and the instruction that has taken place. The SAM procedures should generally replace much of the other on-going testing in the classroom.

The tests can be grouped in any way in which the teacher instructs the students. In other words, if the teacher is teaching a unit which includes several objectives from different parts of the curriculum, these objectives can all be tested at once at the end of the unit by pulling the tests for each of the individual objectives and administering them to the students. Testing can be done in groups or individually depending on the situation and the type of test being used.

It should be noted that not all of the skills in the sequence are tested by the SAM materials. Instruction should continue to be based on the skill sequence and not on the SAM Teacher's Manual, otherwise some skills would be missed.

Testing Throughout the Year

Teachers will be administering the tests as they complete their instructional sequences during the year. It is suggested that the tests be administered approximately one week after the instruction has been completed. If the students do not meet the criteria the first time the test is given, the test should be re-administered after additional instruction has taken place. A student should not be tested more than three times with the same test.

On the computerized roster sheets each student's name is listed with his/her previous skills mastery record. Entries during the current year are to be made on the same class record sheet for each skill in the sequence as they are administered. A "+" sign should be recorded if the student meets the criteria stated in the teacher's manual. If the student does not meet the criteria, a "-" sign should be entered. When the student is retested the "+" or "-" sigh should be recorded again. Since the test can be administered three times it is possible to have three signs such as "-," "-," "-" or "-," "-," "+" or "-," "+," "-" all in the same box. When more than one sign appear in the box, please circle the one which corresponds to the last administration of the test. For example "-," "-," "(+)"

Through the year teachers will need to keep a running tabulation on the SAM's which are administered.

At the end of the school year all computerized class rosters should be completed and returned to the Math Office for tabulation. Principals will receive, in September, the results for their buildings to share with the teachers.

The test materials should be kept in a secure location. Used test materials should not be returned to students.

Test Manual

The teachers manual consists of copies of the student test forms with additional information provided for the teacher's use. In the manual each of the test items in the sequence is presented with the correct answers and the criteria for scoring. In addition, notes are provided if there are special instructions for administering or scoring that particular item.

If you have any questions, contact Dr. Stratigos the math/computer coordinator at 6204.

Level 6 Vocabulary

1. COMMUTATIVE PRINCIPLE
2. ASSOCIATIVE PRINCIPLE
3. DISTRIBUTIVE PRINCIPLE
4. EXPONENT
5. COMPOSITE NUMBER
6. RECIPROCAL

No. 6-338

SKILL: ROUND NUMBERS TO A GIVEN PLACE

MASTERY: 6 OF 8

ANSWERS:

1. 600
2. 7300
3. 35,000
4. 47,000
5. 680
6. 240
7. 30,000
8. 150,000

NOTE:

No. 6-338

ROUND TO THE NEAREST HUNDRED.

1. 635 _____
2. 7291 _____

ROUND TO THE NEAREST THOUSAND.

3. 34,685 _____
4. 47,388 _____

ROUND TO THE NEAREST TEN.

5. 678 _____
6. 235 _____

ROUND TO THE NEAREST TEN THOUSAND.

7. 27,345 _____
8. 148,935 _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-344

SKILL: DEMONSTRATE THE CORRECT USE OF BRACKETS AND PARENTHESES IN MATHEMATICAL STATEMENTS.

MASTERY: 3 OF 4

ANSWERS:

1. $7 + (4 \times 4) = 23$
2. $(6 + 3) \times 6 = 54$
3. $7 + (33 \div 3) = 18$
4. $(18 - 12) \div 6 = 1$

NOTE:

No. 6-344

USE PARENTHESES TO MAKE EACH STATEMENT CORRECT.

EXAMPLE: $(6 + 3) \times 2 = 18$.

1. $7 + 4 \times 4 = 23$
2. $6 + 3 \times 6 = 54$
3. $7 + 33 \div 3 = 18$
4. $18 - 12 \div 6 = 1$

NAME:_____

NOT PASSED_____ PASSED_____

(DATE) (DATE)

No. 6-346

SKILL: USE PRIME FACTORIZATION TO SOLVE GIVEN PROBLEMS

MASTERY: 3 OF 4

ANSWERS:

1. $8 = 2x2x2$

2. $21 = 3x7$

3. $30 = 2x3x5$

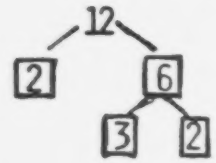
4. $36 = 2x2x3x3$

NOTE: FACTORS MAY BE IN ANY ORDER.

No. 6-346

COMPLETE THE FACTOR TREES TO FIND THE PRIMES FOR THE FOLLOWING NUMBERS.

EXAMPLE:

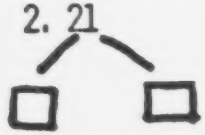


$12 = 2x3x2$

1. 8

$8 = ____ x ____ x ____$

2. 21

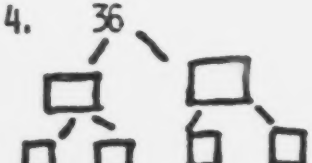


$21 = ____ x ____$

3. 30

$30 = ____ x ____ x ____$

4. 36



$36 = ____ x ____ x ____ x ____$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-347

SKILL: USE EXPONENTS TO SIMPLIFY THE WRITING OF EXPRESSIONS WITH SEVERAL FACTORS.

MASTERY: 3 OF 4

ANSWERS:

1. 5^5
2. 2^3
3. 3^6
4. 8^4

NOTE:

No. 6-347

USE EXPONENTS TO SIMPLIFY THE FOLLOWING.

1. 5 x 5 x 5 x 5 x 5 = _____
2. 2 x 2 x 2 = _____
3. 3 x 3 x 3 x 3 x 3 x 3 = _____
4. 8 x 8 x 8 x 8= _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-348

SKILL: SOLVE DIVISION PROBLEMS WITH THREE DIGIT DIVISORS.

MASTERY: 3 OF 4

ANSWERS:

1. 23 R 12
2. 72
3. 73
4. 111

NOTE:

No. 6-348

SOLVE:

1. $456\overline{)10500}$
2. $609\overline{)43848}$
3. $320\overline{)23360}$
4. $127\overline{)14097}$

NAME:_____

NOT PASSED_____ PASSED_____

(DATE) (DATE)

No. 6-349

SKILL: CONVERT REMAINDERS TO PROPER FRACTIONS.

MASTERY: 3 OF 4

ANSWERS:

1. $23\ R\ \frac{23}{45}$

2. $42\frac{45}{126}$ OR $42\frac{5}{14}$

3. $95\ R\ \frac{50}{97}$

4. $10\frac{45}{80}$ OR $10\ \frac{9}{16}$

NOTE:

No. 6-349

RE-WRITE THE ANSWERS CHANGING THE REMAINDER TO A FRACTION

1. $45\overline{)1058}$ = 23 R 23

2. $126\overline{)5337}$ = 42 R 45

23 R 23 = _____

42 R 45= _____

3. $97\overline{)9265}$ = 95 R 50

4. $80\overline{)845}$ = 10 R 45

95 R 50 = _____

10 R 45= _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-350

SKILL: ADD MIXED NUMBERS AND REDUCE ANSWERS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $36\frac{1}{24}$

2. $9\frac{5}{6}$

3. $17\frac{2}{3}$

4. $4\frac{1}{12}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-350

ADD AND REDUCE THE SUMS TO LOWEST TERMS.

1. $26\frac{7}{8} + 9\frac{1}{6}$ = _____

2. $5\frac{7}{12} + 4\frac{1}{4}$ = _____

3. $14\frac{1}{2} + 3\frac{1}{6}$ = _____

4. $1\frac{3}{4} + 2\frac{1}{3}$ = _____

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-351

SKILL: SUBTRACT MIXED NUMBERS AND REDUCE ANSWER TO LOWEST TERM WITH NO REGROUPING.

MASTERY: 3 OF 4

ANSWERS:

1. $2\frac{1}{10}$

2. $29\frac{2}{3}$

3. $15\frac{1}{8}$

4. $7\frac{13}{15}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-351

SUBTRACT AND REDUCE THE DIFFERENCE TO LOWEST TERMS.

1. $8\frac{3}{5} - 6\frac{1}{2}$ = _____

2. $65\frac{11}{12} - 36\frac{1}{4}$ = _____

3. $18\frac{7}{8} - 3\frac{3}{4}$ = _____

4. $10\frac{1}{6} - 2\frac{3}{10}$ = _____

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-352

SKILL: SUBTRACT FRACTIONS OR MIXED NUMBERS FROM WHOLE NUMBERS AND REDUCE ANSWERS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $2\frac{1}{4}$

2. $2\frac{1}{3}$

3. $1\frac{11}{12}$

4. $1\frac{7}{8}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-352

SUBTRACT AND REDUCE THE DIFFERENCE TO LOWEST TERMS.

1. $5 - 2\frac{3}{4}$ = _____

2. $3 - \frac{2}{3}$ = _____

3. $6\frac{1}{2} - 4\frac{7}{12}$ = _____

4. $10\frac{1}{8} - 8\frac{1}{4}$ = _____

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-353

SKILL: SUBTRACT MIXED NUMBERS WITH REGROUPING AND REDUCE ANSWERS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{1}{2}$

2. $\frac{5}{8}$

3. $1\frac{7}{8}$

4. $1\frac{2}{3}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-353

SUBTRACT AND REDUCE THE DIFFERENCE TO LOWEST TERMS.

1. $3\frac{1}{3} - 2\frac{5}{6}$

2. $4\frac{1}{4} - 3\frac{5}{8}$

3. $6\frac{1}{4} - 4\frac{3}{8}$

4. $7\frac{5}{12} - 5\frac{3}{4}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-354

SKILL: MULTIPLY FRACTIONS BY PROPER FRACTIONS AND REDUCE THE PRODUCT TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{1}{10}$

2. $\frac{7}{16}$

3. $\frac{1}{3}$

4. $\frac{45}{98}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-354

MULTIPLY AND REDUCE THE PRODUCT TO LOWEST TERM.

1. $\frac{1}{6} \times \frac{3}{5} =$

2. $\frac{3}{4} \times \frac{7}{12} =$

3. $\frac{2}{3} \times \frac{1}{2} =$

4. $\frac{5}{7} \times \frac{9}{14} =$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-355

SKILL: MULTIPLY FRACTIONS BY WHOLE NUMBERS AND REDUCE THE PRODUCT TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. 4

2. $1\frac{1}{2}$

3. $\frac{3}{4}$

4. $4\frac{4}{7}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-355

MULTIPLY AND REDUCE THE PRODUCT TO LOWEST TERMS.

1. $\frac{2}{3} \times 6$

2. $\frac{1}{4} \times 6$

3. $6 \times \frac{1}{8}$

4. $16 \times \frac{2}{7}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-356

SKILL: MULTIPLY FRACTIONS BY IMPROPER FRACTIONS AND REDUCE THE PRODUCTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{6}{7}$

2. $\frac{1}{6}$

3. $1\frac{1}{4}$

4. $\frac{3}{5}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-356

MULTIPLY THE PRODUCT AND REDUCE TO LOWEST TERMS.

1. $\frac{10}{7} \times \frac{3}{5}$

2. $\frac{1}{8} \times \frac{4}{3}$

3. $\frac{2}{3} \times \frac{15}{8}$

4. $\frac{12}{5} \times \frac{1}{4}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-357

SKILL: MULTIPLY FRACTIONS BY MIXED NUMBERS AND REDUCE THE PRODUCTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $1\frac{1}{8}$

2. $13\frac{1}{10}$

3. $2\frac{2}{21}$

4. $2\frac{1}{12}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-357

MULTIPLY AND REDUCE PRODUCTS TO LOWEST TERMS.

1. $\frac{3}{4} \times 1\frac{1}{2}$

2. $16\frac{3}{8} \times \frac{4}{5}$

3. $\frac{2}{3} \times 3\frac{1}{7}$

4. $2\frac{1}{2} \times \frac{5}{6}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-358

SKILL: MULTIPLY MIXED NUMBERS BY A MIXED NUMBER AND REDUCE THE PRODUCTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $2\frac{3}{4}$ 2. $17\frac{1}{2}$

3. $4\frac{1}{8}$ 4. $1\frac{1}{3}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-358

MULTIPLY AND REDUCE THE PRODUCT TO LOWEST TERMS.

1. $2\frac{1}{5} \times 1\frac{1}{4}$ 2. $5\frac{1}{4} \times 3\frac{1}{3}$

3. $1\frac{1}{2} \times 2\frac{3}{4}$ 4. $1\frac{1}{6} \times 1\frac{1}{7}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-359

SKILL: DIVIDE FRACTIONS BY PROPER FRACTIONS AND REDUCE QUOTIENTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{1}{4}$

2. $1\frac{4}{21}$

3. $1\frac{2}{9}$

4. $\frac{72}{77}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-359

DIVIDE AND REDUCE TO LOWEST TERMS.

1. $\frac{1}{6} \div \frac{2}{3}$

2. $\frac{5}{7} \div \frac{3}{5}$

3. $\frac{8}{9} \div \frac{8}{11}$

4. $\frac{6}{7} \div \frac{11}{12}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-360

SKILL: DIVIDE FRACTIONS BY WHOLE NUMBERS (OR THE INVERSE) AND REDUCE QUOTIENTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{5}{36}$

2. 12

3. $\frac{1}{3}$

4. 15

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-360

DIVIDE AND REDUCE TO LOWEST TERMS.

1. $\frac{5}{12} \div 3$

2. $6 \div \frac{1}{2}$

3. $\frac{2}{3} \div 2$

4. $6 \div \frac{2}{5}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 3-361

SKILL: DIVIDE FRACTIONS BY IMPROPER FRACTIONS AND REDUCE THE QUOTIENTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{3}{14}$

2. $\frac{35}{72}$

3. $\frac{21}{80}$

4. $\frac{3}{11}$

NOTE CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-361

DIVIDE AND REDUCE TO LOWEST TERMS.

1. $\frac{1}{2} \div 2\frac{1}{3}$

2. $\frac{5}{6} \div 1\frac{5}{7}$

3. $\frac{7}{8} \div 3\frac{1}{3}$

3. $\frac{3}{4} \div 2\frac{3}{4}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-362

SKILL: DIVIDE MIXED NUMBERS BY FRACTIONS (OR THE INVERSE) AND REDUCE QUOTIENTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $4\frac{1}{2}$

2. $\frac{3}{10}$

3. $\frac{3}{16}$

4. $\frac{25}{54}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-362

DIVIDE AND REDUCE TO LOWEST TERMS.

1. $1\frac{1}{2} \div \frac{1}{3}$

2. $\frac{3}{6} \div 1\frac{2}{3}$

3. $\frac{1}{4} \div 1\frac{1}{3}$

4. $\frac{5}{6} \div 1\frac{4}{5}$

NAME _____

NOT PASSED _____ (DATE) PASSED 42 (DATE)

No. 6-363

SKILL: DIVIDE MIXED NUMBERS BY WHOLE NUMBERS (OR THE INVERSE) AND REDUCE QUOTIENTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{7}{18}$

2. $\frac{16}{33}$

3. $1\frac{5}{18}$

4. $\frac{9}{17}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No. 6-363

DIVIDE AND REDUCE TO LOWEST TERMS.

1. $2\frac{1}{3} \div 6$

2. $2 \div 4\frac{1}{8}$

3. $3\frac{5}{6} \div 3$

4. $3 \div 5\frac{2}{3}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-364

SKILL: DIVIDE MIXED NUMBERS BY MIXED NUMBERS AND REDUCE THE QUOTIENTS TO LOWEST TERMS.

MASTERY: 3 OF 4

ANSWERS:

1. $\frac{20}{33}$

2. $2\frac{3}{10}$

3. $1\frac{13}{20}$

4. $1\frac{7}{8}$

NOTE: CHECK TO SEE IF STUDENTS WHO HAVE FAILED THIS TEST HAVE MISSED THE OPERATION PERTAINING TO THE SKILL OR JUST MADE AN ERROR IN REDUCING TO LOWEST TERMS.

No.6-364

DIVIDE AND REDUCE TO THE LOWEST TERMS.

1. $1\frac{2}{3} \div 2\frac{3}{4}$

2. $3\frac{5}{6} \div 1\frac{2}{3}$

3. $4\frac{1}{8} \div 2\frac{1}{2}$

4. $6\frac{1}{4} \div 3\frac{1}{3}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-365

SKILL: IDENTIFY DECIMAL PLACE VALUE UP TO THE THOUSANDTHS PLACE

MASTERY: 3 OF 4 COMPLETE

ANSWERS:

1. $3 + \frac{1}{10} + \frac{7}{100} + \frac{6}{1000} +$

2. $9 + \frac{6}{10} + \frac{4}{100} + \frac{0}{1000}$

3. 5 IS IN THE THOUSANDTHS PLACE.
   4 IS IN THE HUNDREDTHS PLACE
   3 IS IN THE TENTHS PLACE

4. 9 IS IN THE THOUSANDTHS PLACE
   6 IS IN TH TENTHS PLACE
   4 IS IN THE HUNDREDTHS PLACE

NOTE:

No. 6-365

FILL IN THE BLANK:

1. 3.176 = ____ + ____ + ____ + ____
   10 100 1,000

2. 9.640 = ____ + ____ + ____ + ____
   10 100 1,000

3. 2.345

_____IS IN THE THOUSANDTHS PLACE.

_____IS IN THE HUNDREDTHS PLACE.

_____IS IN THE TENTHS PLACE

4. 37.649

_____IS IN THE THOUSANDTHS PLACE.

_____IS IN THE TENTHS PLACE.

_____IS IN THE HUNDREDTHS PLACE

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-366

SKILL: READ DECIMALS UP TO THOUSANDTHS.

MASTERY: 3 OF 4

ANSWERS:

READ THESE NUMBERS.

1. 34801
2. 68.75
3. 55.089
4. 11. 6

NOTE:

No. 6-366

READ EACH DECIMAL.

1. 34.801
2. 68.75
3. 55.089
4. 11.6

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-367

SKILL: WRITE DECIMALS UP TO THOUSANDTHS.

MASTERY: 3 OF 4

ANSWERS:

READ THESE TO STUDENTS:

1. 2.785

2. 36.074

3. 9.406

4. 14.32

NOTE: MAY BE READ MORE THAN ONCE.

No. 6-367

WRITE THE DECIMAL NUMBERS YOUR TEACHER READS.

1. _____

2. _____

3. _____

4. _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-370

SKILL ROUND OFF DECIMALS UP TO THOUSANDTHS.

MASTERY: 3 OF 4 COMPLETE

ANSWERS:

1. A. 6.37
   B. 6.4
   C. 6.372

2. A. 27.257
   B. 27.3
   C. 27.26

NOTE:

No. 6-370

1. 6.37218

   A. ROUND OFF TO THE NEAREST HUNDREDTHS_____
   B. ROUND OFF TO THE NEAREST TENTHS_____
   C. ROUND OFF TO THE NEAREST THOUSANDTHS_____

2. 27,2571

   A. ROUND OFF TO THE NEAREST THOUSANDTHS_____
   B. ROUND OFF TO THE NEAREST TENTHS_____
   C. ROUND OFF TO THE NEAREST HUNDRETHS_____

NAME _____

NOT PASSED_____ (DATE) PASSED _____ (DATE)

No. 6-370 (PAGE 2)

SKILL: ROUND OFF DECIMALS UP TO THOUSANDTHS.

MASTERY: 3 OF 4 COMPLETE

ANSWERS:

3) A. 5.1
   B. 5.085
   C. 5.08

4) A. 132.59
   B. 132.586
   C. 132.6

NOTE: 3 OF 4 COMPLETE PROBLEMS.

No. 6-370 (PAGE 2)

3. 5.0849
   A. ROUND OFF TO THE NEAREST TENTHS_____
   B. ROUND OFF TO THE NEAREST THOUSANDTHS_____
   C. ROUND OFF TO THE NEAREST HUNDREDTHS_____

4. 132.5861
   A. ROUND OFF TO THE NEAREST HUNDREDTHS_____
   B. ROUND OFF TO THE NEAREST THOUSANDTHS_____
   C. ROUND OFF TO THE NEAREST TENTHS_____

NAME _____

NOT PASSED_____ PASSED _____
(DATE) (DATE)

No. 6-371

SKILL: ADD DECIMAL NUMBERS IN HORIZONTAL AND VERTICAL FORM.

MASTERY: 3 OF 4

ANSWERS:

1. 41.264

2. 119.851

3. 57.134

4. 97.575

NOTE:

No. 6-371

ADD:

1.
$$\begin{array}{r} 15.076 \\ 1.432 \\ +\ 24.756 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 15.621 \\ 7.83 \\ +\ 96.4 \\ \hline \end{array}$$

3. 14.3 + 2.76 + 40.074 =

4. 59.76 + 34.605 + 3.21 =

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-372

SKILL: SUBTRACT DECIMAL NUMBERS IN HORIZONTAL AND VERTICAL FORM.

MASTERY: 3 OF 4

ANSWERS:

1. 0.623

2. 4.204

3. 1.886

4. 5.261

NOTE:

No. 6-372

FIND THE DIFFERENCE:

1. 7.452 − 6.829

2. 32.672 − 28.468

3. 5.732 − 3.846 =

4. 19.501 − 14.24 =

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-373

SKILL: MULTIPLY DECIMAL NUMBERS BY 10, 100, 1000.

MASTERY: 5 OF 6

ANSWERS:

1. 15.30
2. 7630.00
3. 3689.00
4. 2469.00
5. 1169.0
6. 43,513.000

NOTE:

No. 6-373

MULTIPLY:

1. 1.53 x 10 = _____
2. 76.30 x100 = _____
3. 3.689 x 1000 = _____
4. 24.69 x 100
5. 116.9 x 10
6. 43.513 x 1000

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-374

SKILL: MULTIPLY DECIMAL NUMBERS.

MASTERY: 3 OF 4

ANSWERS:

1. 7.245
2. .06780
3. 6.0438
4. 13.87

NOTE:

No. 6-374

MULTIPLY

1. $10.5 \times .69$
2. $1.356 \times .05$
3. $14.39 \times .42$
4. 1.9×7.3

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-375

SKILL: DIVIDE DECIMAL NUMBERS BY WHOLE NUMBERS.

MASTERY: 5 OF 6

ANSWERS:

1. 5.
2. 6.1
3. .325
4. .089
5. 5.51
6. .30

NOTE:

No. 6-375

DIVIDE.

1) $51\overline{)255.0}$
2) $6\overline{)36.6}$
3) $3\overline{).975}$
4) $7\overline{).623}$
5) $8\overline{)44.08}$
6) $40\overline{)12.00}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-376

SKILL: DIVIDE DECIMAL NUMBERS BY TENTHS.

MASTERY: 3 OF 4

ANSWERS:

1. 10

2. .013

3. 142.2

4. .002

NOTE:

No. 6-376

DIVIDE:

1. $5.7\overline{)\ 5\ 7}$

2. $.9\overline{)\ .0\ 1\ 1\ 7}$

3. $.6\overline{)\ 8\ 5.\ 3\ 2}$

4. $.7\overline{)\ .0\ 0\ 1\ 4}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-377

SKILL: DIVIDE DECIMAL NUMBERS BY HUNDREDTHS.

MASTERY; 3 OF 4

ANSWERS;

1. 4410

2. 7.2

3. .093

4. 100

NOTE:

No. 6-377

DIVIDE:

1. $.03\overline{)132.3}$

2. $.81\overline{)5.832}$

3. $1.24\overline{).11532}$

4. $.32\overline{)32}$

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-378

SKILL: MATCH FRACTIONS TO EQUIVALENT DECIMAL NUMBERS 1/10, 1/5, 1/4, 1/2, 3/4

MASTERY: 4 OF 5

ANSWERS:

1. B
2. E
3. F
4. D
5. A

NOTE:

No. 6-378

MATCH THE FOLLOWING BY PLACING THE CORRECT LETTER IN THE BLANK.

1) $\frac{1}{4}$ = _____

2) $\frac{1}{5}$ = _____

3) $\frac{3}{4}$ = _____

4) $\frac{1}{10}$ = _____

5) $\frac{1}{2}$ = _____

A. .5
B. .25
C. .3
D. .1
E. .2
F. .75

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-379

SKILL: WRITE FRACTIONS AS DECIMAL NUMBERS 1/10, 1/5, 1/4, 1/2, 3/4.

MASTERY: 4 OF 5

ANSWERS:

1. .1
2. .2
3. .25
4. . 5
5. .75

NOTE:

No. 6-379

WRITE EACH FRACTION AS A DECIMAL.

1) $\frac{1}{10}$ = _____

2) $\frac{1}{5}$ = _____

3) $\frac{1}{4}$ = _____

4) $\frac{1}{2}$ = _____

5) $\frac{3}{4}$ = _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-382

SKILL: SOLVE WORD PROBLEMS INVOLVING INTERACTIONS OF THE BASIC FOUR OPERATIONS FOR WHOLE NUMBERS.

MASTERY: 3 OF 4

ANSWERS:

1. 810
2. 140
3. $11.42
4. $ 3.00

NOTE:

No. 6-382

SOLVE

1. IF MORE THAN 5000 CHILDREN A WEEK CROSS THE STREET IN FRONT OF THE SCHOOL A TRAFFIC LIGHT WILL BE INSTALLED. MR. SCHULTZ COUNTS 838 CHILDREN CROSSING EACH DAY FOR 5 DAYS. WILL THE TRAFFIC LIGHT BE INSTALLED? IF NOT, HOW MANY MORE CHILDREN WILL NEED TO CROSS TO HAVE THE LIGHT INSTALLED?_____

2. IF THE RED TORNADOES AVERAGED 75 POINTS PER GAME FOR 20 GAMES. THEIR OPPONENTS AVERAGED 68 POINTS PER GAME FOR 20 GAMES. HOW MANY MORE POINTS DID THE RED TORNADOES SCORE FOR THE SEASON THAN THEIR OPPONENTS?_____

3. JUDY WENT TO THE STORE WITH $20.00. SHE BOUGHT 3 CANDY BARS AT 20¢ EACH 1 RECORD ALBUM AT $5.98, 8 COLORED MARKERS AT 25¢ EACH. HOW MUCH MONEY DID JUDY HAVE LEFT TO SPEND?

_____

4. 120 SIXTH GRADE STUDENTS WENT ON A FIELD TRIP. THE TOTAL COST FOR THE TRIP WAS $400.00. THE SCHOOL P.T.O. GAVE THEM $40.00 FOR THE TRIP. WHAT WOULD BE EACH STUDENT'S SHARE?

_____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-383

SKILL: USE THE FOUR BASIC OPERATIONS TO SOLVE THE UNKNOWN.

MASTERY: 3 OF 4

ANSWERS:

1) A = 2100 2) B = 25

3) C = 98 4) D = 132

NOTE:

No. 6-383

SOLVE:

1) 2 X (3 X 350) = A

A = _____

2) (42 + 8) ÷ 2 = B

B = _____

3) (37 X 3) - (221 ÷ 17) = C

C = _____

4) 672 - D = (135 X 4)

D = _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-384

SKILL: USE THE FOUR BASIC OPERATIONS TO SOLVE WORD PROBLEMS USING FRACTIONS AND MIXED NUMBERS.

MASTERY: 3 OF 4 COMPLETE

ANSWERS:

1. 48 DAMAGED HOMES

   12 UNDAMAGED HOMES

2. 45 MINUTES

3. 30 HAMBURGERS

4. $4\frac{1}{10}$ LITERS USED

5. $\frac{9}{10}$ LITER LEFT

NOTE:

No. 6-384

SOLVE:

1. IN FROGVILLE THERE ARE 96 HOMES. ½ OF THE 96 HOMES WERE BADLY DAMAGED BY A FLOOD. 3/8 OF THE 96 HOMES WERE ONLY SLIGHTLY DAMAGED BY THE FLOOD. HOW MANY HOMES WERE BADLY DAMAGED BY THE FLOOD? _____ HOW MANY HOMES WEREN'T DAMAGED AT ALL BY THE FLOOD? _____

2. IT TAKES JOSE ¼ OF AN HOUR TO GET TO SCHOOL IN HIS FATHER'S CAR. IT TAKES HIM ½ OF AN HOUR TO WALK HOME FROM SCHOOL. HOW MUCH TIME DOES JOSE SPEND GOING TO AND FROM SCHOOL? _____ MINUTES

3. RUTH BOUGHT 7½ POUNDS OF HAMBURGER FOR HER SON'S BIRTHDAY PARTY. HOW MANY QUARTER POUNDERS DID RUTH MAKE WITH THE HAMBURGER?

   _____

4. DR. JONES BUYS MEDICINE IN A 5 LITER BOTTLE. IN APRIL HE USED 1-3/10 LITERS AND IN MAY HE USED 2-4/5 LITERS. HOW MUCH MEDICINE DID HE USE? _____ HOW MUCH DOES HE HAVE LEFT? _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-385

SKILL: USE THE FOUR BASIC OPERATIONS TO SOLVE WORD PROBLEMS USING DECIMAL NUMBERS.

MASTERY:

ANSWERS:

1. 149.51 MPH.
2. 136.4 MILES PER DAY
3. 41.84 M OF WOOD
4. .354 OF A TON

NOTE:

No. 6-385

SOLVE:

1. DURING TIME TRIALS, 5 RACE CARS REACHED THE FOLLOWING SPEEDS: 145.95 MPH, 158.75 MPH, 162.08 MPH, 150.06 MPH, 130.71 MPH. WHAT WAS THE AVERAGE SPEED?_____ MPH

2. ON HIS VACATION, MR. BROWN DROVE 1909.6 MILES IN 14 DAYS. TO THE NEAREST TENTH OF A MILE. FIND THE AVERAGE NUMBER OF MILES HE TRAVELED PER DAY. _____ MILES

3. JACK IS PLANNING TO BUILD A FENCE AROUND HIS YARD. HE NEEDS 5.23 M OF WOOD TO BUILD EACH OF THE 8 SECTIONS. HOW MUCH WOOD IS NEEDED TO BUILD HIS FENCE?_____ M

4. A DODGE WEIGHS 1.79 TONS . A FORD WEIGHS 1.436 TONS. WHAT IS THE DIFFERENCE IN WEIGHT?_____ TONS

NAME _____

NOT PASSED_____ (DATE) PASSED _____ (DATE)

No. 6-387

SKILL: IDENTIFY THE DECIMAL EQUIVALENT OF THE METRIC PREFIXES MILLI, CENTI, DECI, DEKA, HECTO, AND KILO.

MASTERY: 4 OF 6

ANSWERS:

1. HECTO
2. MILLI
3. CENTI
4. DEKA
5. DECI
6. KILO

NOTE:

No. 6-387

FILL IN THE BLANK WITH THE CORRECT PREFIX: MILLI, CENTI, DECI, DEKA, HECTO, KILO.

1) 100.0 = _____
2) .001 = _____
3) . 01 = _____
4) 10.0 = _____
5) .1 = _____
6) 1000.0 = _____

NAME _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-394

SKILL: INTERPRET BAR, CIRCLE, AND LINE GRAPHS.

MASTERY: 7 OF 9, WITH 2 OF EACH SECTION CORRECT.

ANSWERS:

1. (A.) 600
   (B.) 500
   (C) BASEBALL

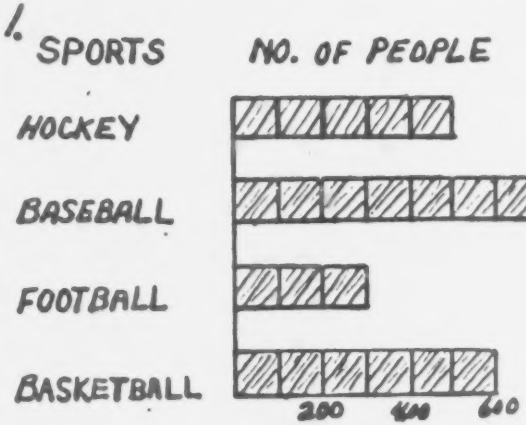
2. (A.) $\frac{1}{4}$
   (B) $\frac{1}{3}$
   (C) $\frac{1}{6}$

NOTE:

No. 6-394

USING THE GRAPH, CHOOSE THE CORRECT ANSWER.

1.

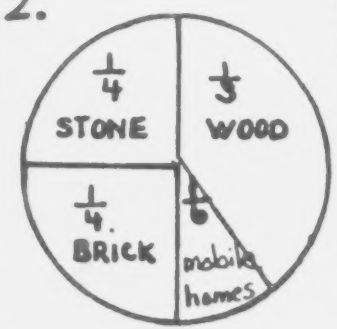


A. HOW MANY PEOPLE PREFER BASKETBALL?_____

B. HOW MANY PEOPLE PREFER HOCKEY?_____

C. WHICH IS THE SPORT MOST PEOPLE PREFER?_____

2.



FROGVILLE HAS 4 DIFFERENT TYPES OF HOUSES.

A. WHAT FRACTION OF THE HOUSES ARE MADE OF STONE?_____

B. WHAT FRACTION OF THE HOUSES ARE MADE OF WOOD?_____

C. WHAT FRACTION OF THE HOUSES ARE MOBILE HOMES?_____

NAME:_____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

No. 6-394 (CONTINUED)

SKILL:

INTERPRET BAR, CIRCLE, AND LINE GRAPHS

MASTERY: 7 OF 9, NO MORE THAN ONE INCORRECT IN EACH PART.

ANSWERS:

3. (A) 10

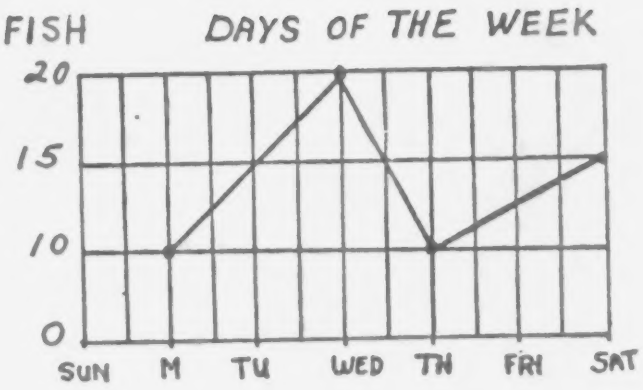
(B) 15

(C) 10

NOTE:

No. 6-394 (CONTINUED)

3.



A. HOW MANY FISH WERE CAUGHT ON THURSDAY?_____

B. HOW MANY FISH WERE CAUGHT ON SATURDAY?_____

C. HOW MANY MORE FISH WERE CAUGHT ON WEDNESDAY THAN THURSDAY?_____

NAME:_____

NOT PASSED_____ PASSED_____

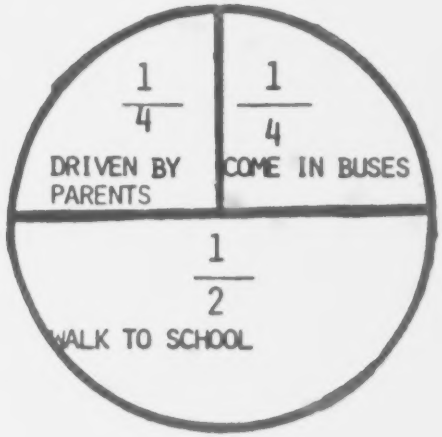
(DATE) (DATE)

NO. 6-395

SKILL: CONSTRUCT BAR, CIRCLE, AND LINE GRAPHS?

MASTERY: 3 OF 3

ANSWERS:



NOTE:

NO. 6-395

1. CONSTRUCT A CIRCLE GRAPH TO SHOW:
   - A. ½ OF THE CHILDREN WALK TO SCHOOL.
   - B. ¼ OF THE CHILDREN ARE DRIVEN BY PARENTS.
   - C. THE REMAINDER COME IN BUSES.

NAME:_____

NOT PASSED_____ PASSED_____

(DATE) (DATE)

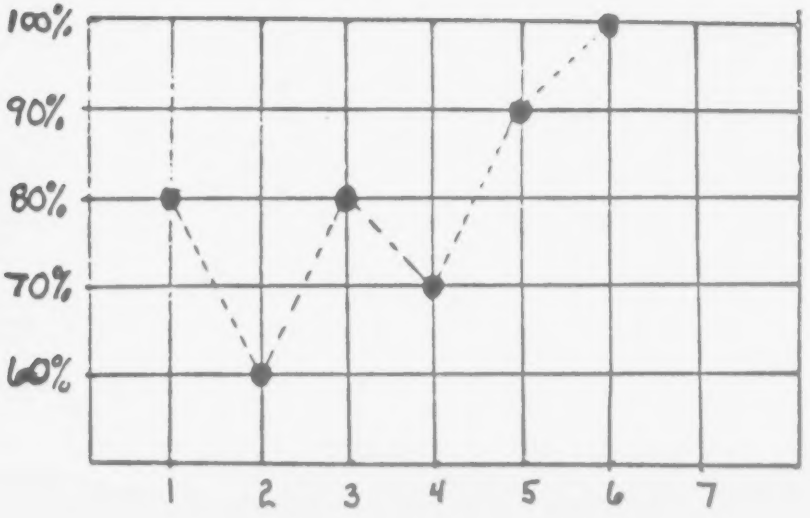
No. 6- 395

SKILL:

CONSTRUCT BAR, CIRCLE, AND LINE GRAPHS.

MASTERY: 5 OF 6

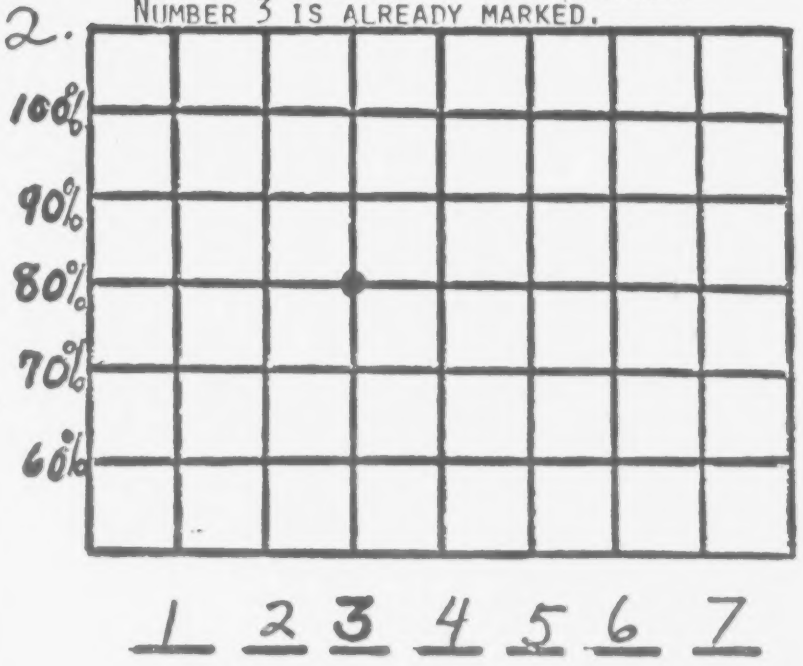
ANSWERS:



NOTE:

No. 6-395

PLOT BOB'S SPELLING TEST RECORD.
NUMBER 3 IS ALREADY MARKED.



BOB'S TEST SCORES ARE:

1. 80 %
2. 60 %
3. 80 %
4. 70 %
5. 90 %
6. 100 %

NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)

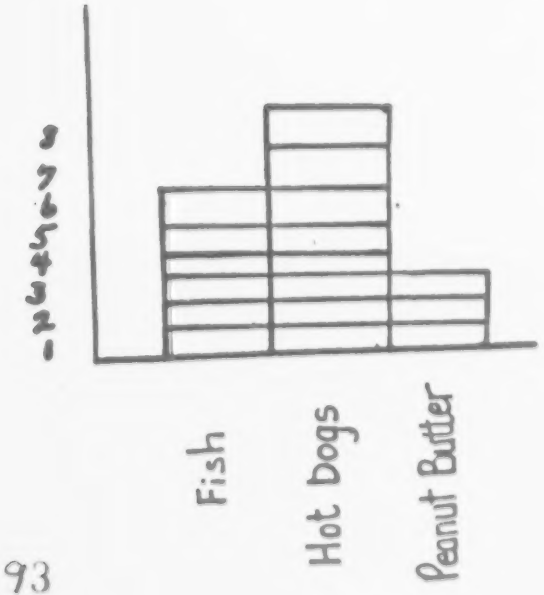
No. 6-395

SKILL:

CONSTRUCT BAR, CIRCLE, AND LINE GRAPHS.

MASTERY: ALL CORRECT

ANSWERS:



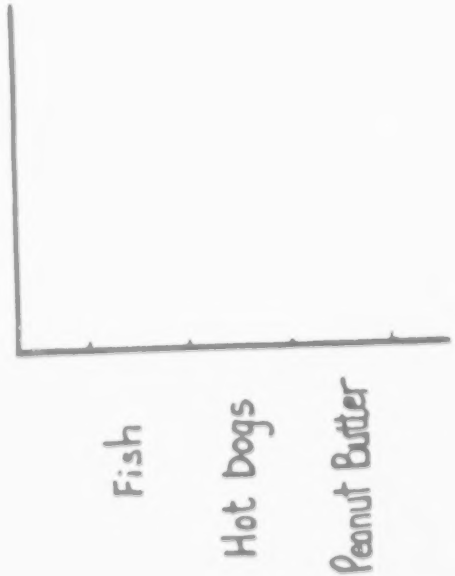
No. 6-395

3. CONSTRUCT A BAR GRAPH TO SHOW THE FOLLOWING:

8 CHILDREN EAT HOT DOGS FOR LUNCH.

6 EAT FISH SANDWICHES

3 EAT PEANUT BUTTER SANDWICHES.



NAME: _____

NOT PASSED _____ (DATE) PASSED _____ (DATE)